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ASSIGNMENT BOOKLET 6A

MAT2225 Mathematics 24
Module 6: Section 1 Assignment

FOR STUDENT USE ONLY	
Date Assignment Submitted: _____	(If label is missing or incorrect) Student File Number: _____
Time Spent on Assignment: _____	Module Number: _____

FOR OFFICE USE ONLY

Assigned Teacher: _____

Assignment Grading: _____

Graded by: _____

Date Assignment Received:

Student's Questions and Comments

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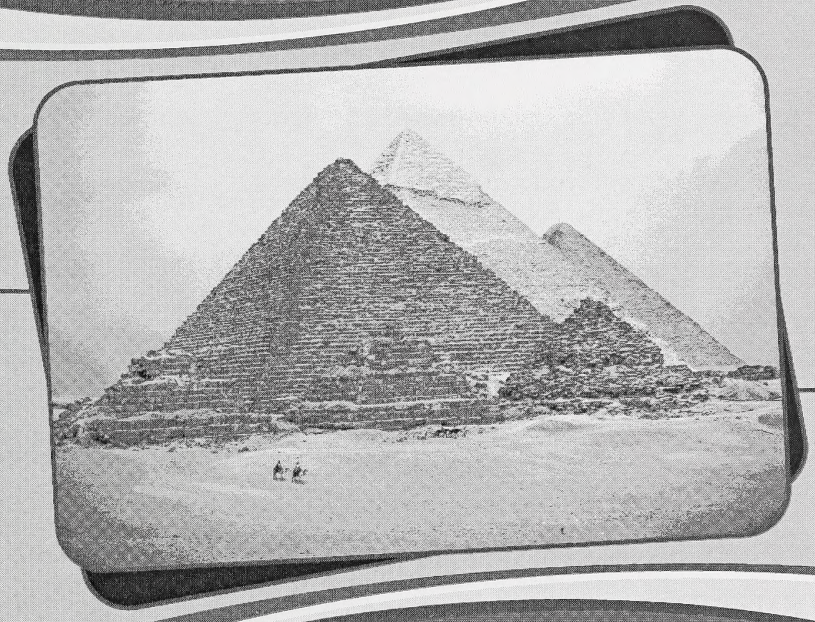
6

MATHEMATICS 24



Module 6
Assignment Booklet 6A

Learning Technologies Branch

Alberta LEARNING

FOR TEACHER'S USE ONLY

Summary

	Total Possible Marks	Your Mark
Section 1 Assignment	43	
	43	

Teacher's Comments

Mathematics 24
Module 6: Design and Construction
Assignment Booklet 6A
Section 1 Assignment
Learning Technologies Branch
ISBN 0-7741-2611-6

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Teachers	✓
Administrators	
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ASSIGNMENT BOOKLET 6A
MATHEMATICS 24: MODULE 6
SECTION 1 ASSIGNMENT

This Assignment Booklet is worth 43 marks out of the total 100 marks for the assignments in Module 6. The value of each assignment and each question is stated in the left margin.

Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

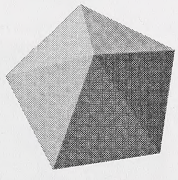
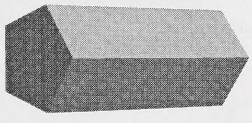
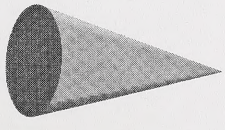
(43)

Section 1 Assignment: Prisms and Nets

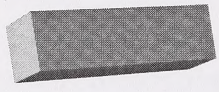
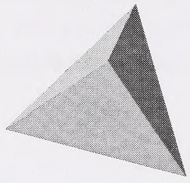
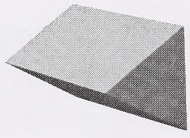
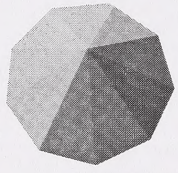
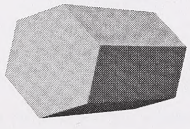
Clearly show how you arrived at your answers by showing your work.

(15)

1. a. Complete the following table. It shows how the name of each shape is derived.

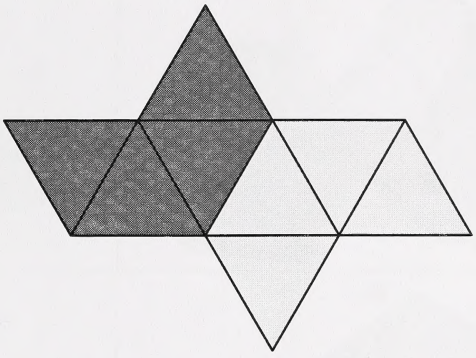
Object	Shape of Base	Shape of Top	Shape of Sides	Name of Object
				
				
				

(5) **b.** Classify the following objects as either prisms, pyramids, cones, or cylinders. Place a check mark in the column that describes the object. The first one has been done for you.

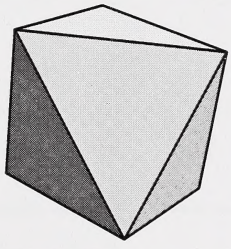
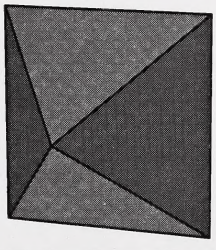
Object	Prism	Pyramid	Cone	Cylinder
	✓			
				
				
				
				

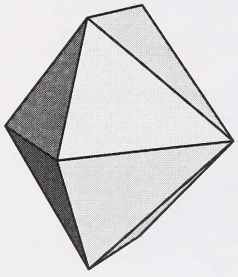
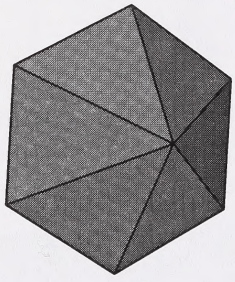
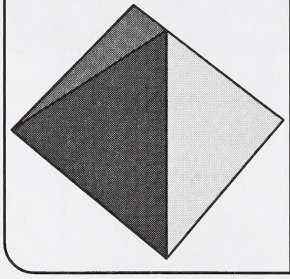
Turn to Section 1: Lesson 2 in the Module 6 Student Module Booklet.

(9) **2. a.** The net shown below makes a 3-D object.

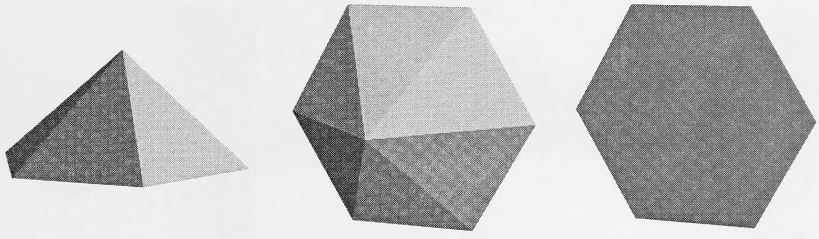


Decide if each of the following views shows or does not show an object that can be created from the net. Put a check mark in the appropriate column. Then explain your answer in the last column.

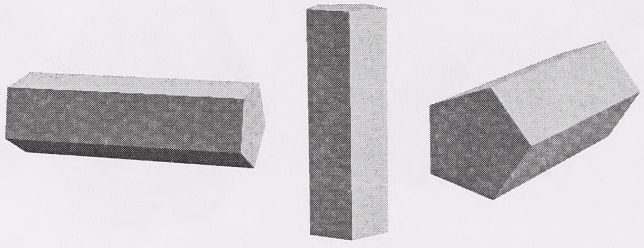
View	May Come from Net	Does Not Come from Net	Reasoning
			
			

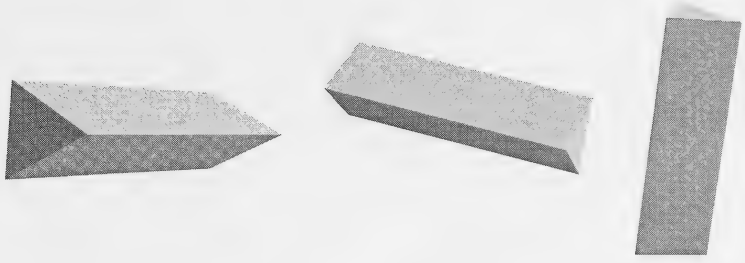
(4) **b. i.** Following are three different views of object 1. Draw a net for the object in the space below.



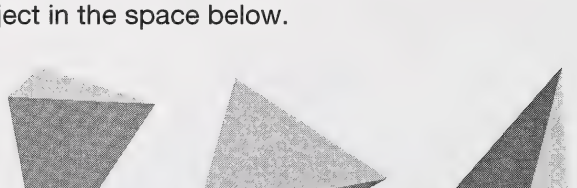
(4) **ii.** Following are three different views of object 2. Draw a net for the object in the space below.



(3) **c. i.** Following are three different views of object 1. Draw the skeleton for the object in the space below.



(3) **ii.** Following are three different views of object 2. Draw the skeleton for the object in the space below.



Submit your completed Assignment Booklet 6A to your teacher to be marked.

Turn to Section 1: Conclusion in the Module 6 Student Module Booklet.

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ASSIGNMENT BOOKLET 6B

MAT2225 Mathematics 24
Module 6: Section 2 Assignment and Final Module Assignment

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Date Assignment Submitted: _____	(If label is missing or incorrect) Student File Number: _____
Time Spent on Assignment: _____	Module Number: _____

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Assigned Teacher: _____

Assignment Grading: _____

Graded by: _____

Date Assignment Received:

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Teacher

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MATHEMATICS 24

Module 6
Assignment Booklet 6B

Learning Technologies Branch

Alberta LEARNING

FOR TEACHER'S USE ONLY

Summary

	Total Possible Marks	Your Mark
Section 2 Assignment	46	
Final Module Assignment	11	
	57	

Teacher's Comments

Mathematics 24
Module 6: Design and Construction
Assignment Booklet 6B
Section 2 Assignment and Final Module Assignment
Learning Technologies Branch
ISBN 0-7741-2612-4

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This document is intended for	
Students	✓
Teachers	✓
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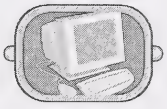
Other	



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ASSIGNMENT BOOKLET 6B
MATHEMATICS 24: MODULE 6
SECTION 2 ASSIGNMENT AND FINAL MODULE ASSIGNMENT

This Assignment Booklet is worth 57 marks out of the total 100 marks for the assignments in Module 6. The value of each assignment and each question is stated in the left margin.

Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

(46)

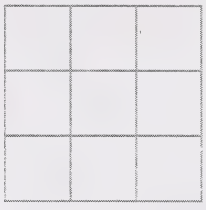
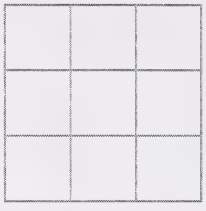
Section 2 Assignment: Drawings and Design

Clearly show how you arrived at your answers by showing your work.

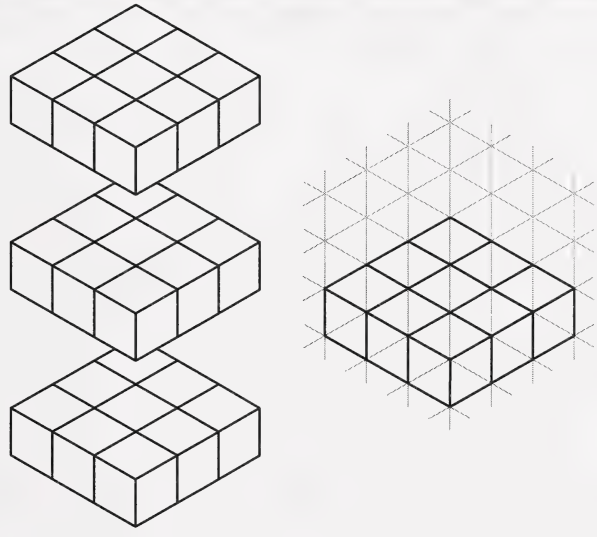
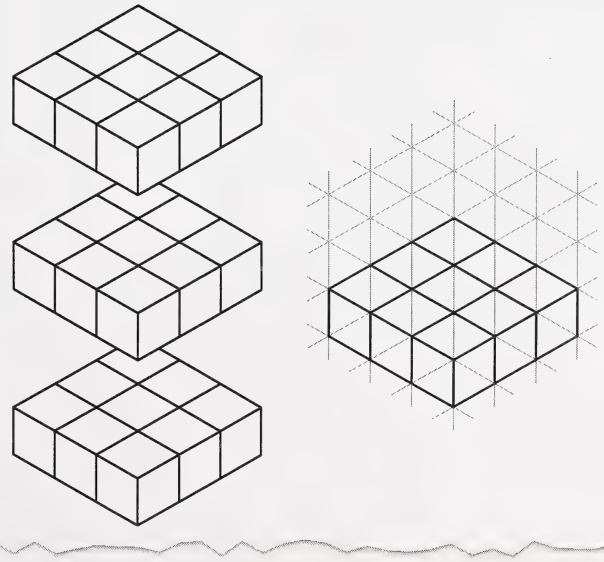
(4)

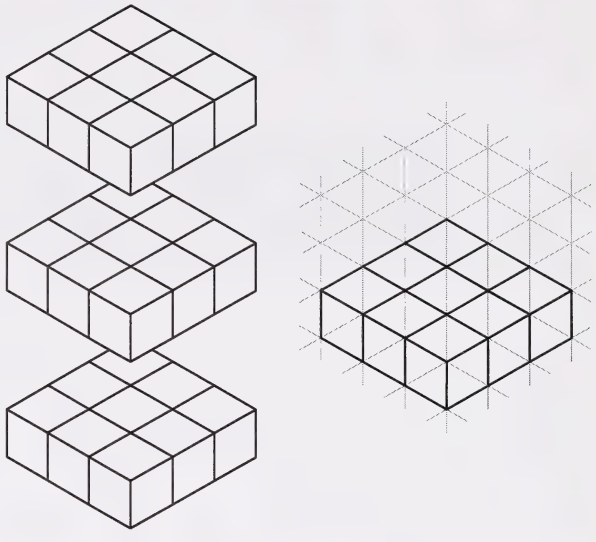
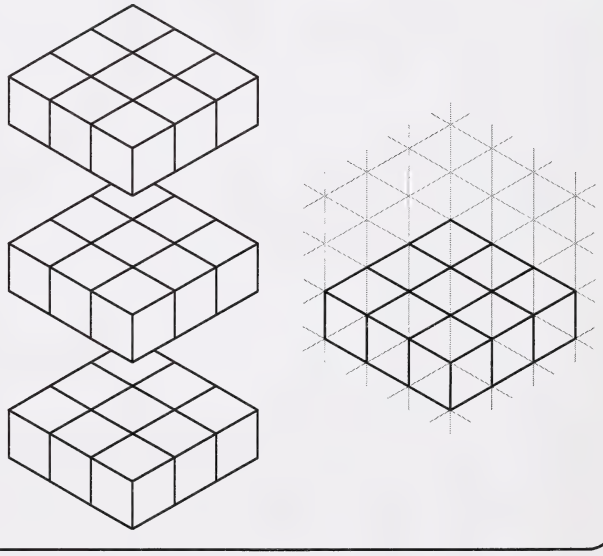
1. a. Draw and colour the requested views of the following objects. The colour diagrams can be found in the PDF document called "Module 6: Section 2: Lesson 1 and Related Diagrams" on the multimedia CD.

Object	View Required	Drawing
Refer to diagram **1. a. i.** in the Assignment Booklet Diagrams portion of the PDF.	Top	
Refer to diagram **1. a. ii.** in the Assignment Booklet Diagrams portion of the PDF.	Right	

Refer to diagram **1. a. iii.** in the Assignment Booklet Diagrams portion of the PDF.	Left	
Refer to diagram **1. a. iv.** in the Assignment Booklet Diagrams portion of the PDF.	Front	

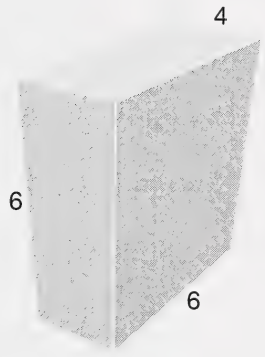
(16) **b.** For each given view, draw an object that would have that view and contain at least the given number of cubes. The colour diagrams can be found in the PDF document called "Module 6: Section 2: Lesson 1 and Related Diagrams" on the multimedia CD.

Given View	Number of Cubes	Possible Object
Refer to diagram **1. b. i.** in the Assignment Booklet Diagrams portion of the PDF.	10	
Refer to diagram **1. b. ii.** in the Assignment Booklet Diagrams portion of the PDF.	11	

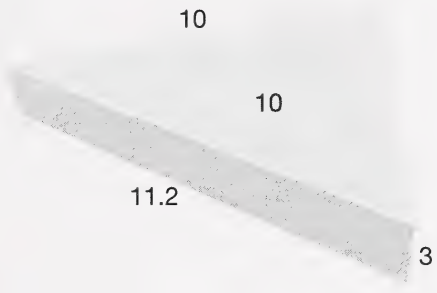
Refer to diagram **1. b. iii.** in the Assignment Booklet Diagrams portion of the PDF.	8	
Refer to diagram **1. b. iv.** in the Assignment Booklet Diagrams portion of the PDF.	14	

2. The Grande Games Company is looking at packages for their newest computer game. Their designers came up with many possible containers. The final decision came down to these two containers. The dimensions are in inches.

Container 1



Container 2



(4) **a.** Which container has the greater volume? Show your calculations.

(8) **b.** What is the surface area of each container?

(2) **c.** Which container do you think the company should use? Give at least one good reason for your choice.

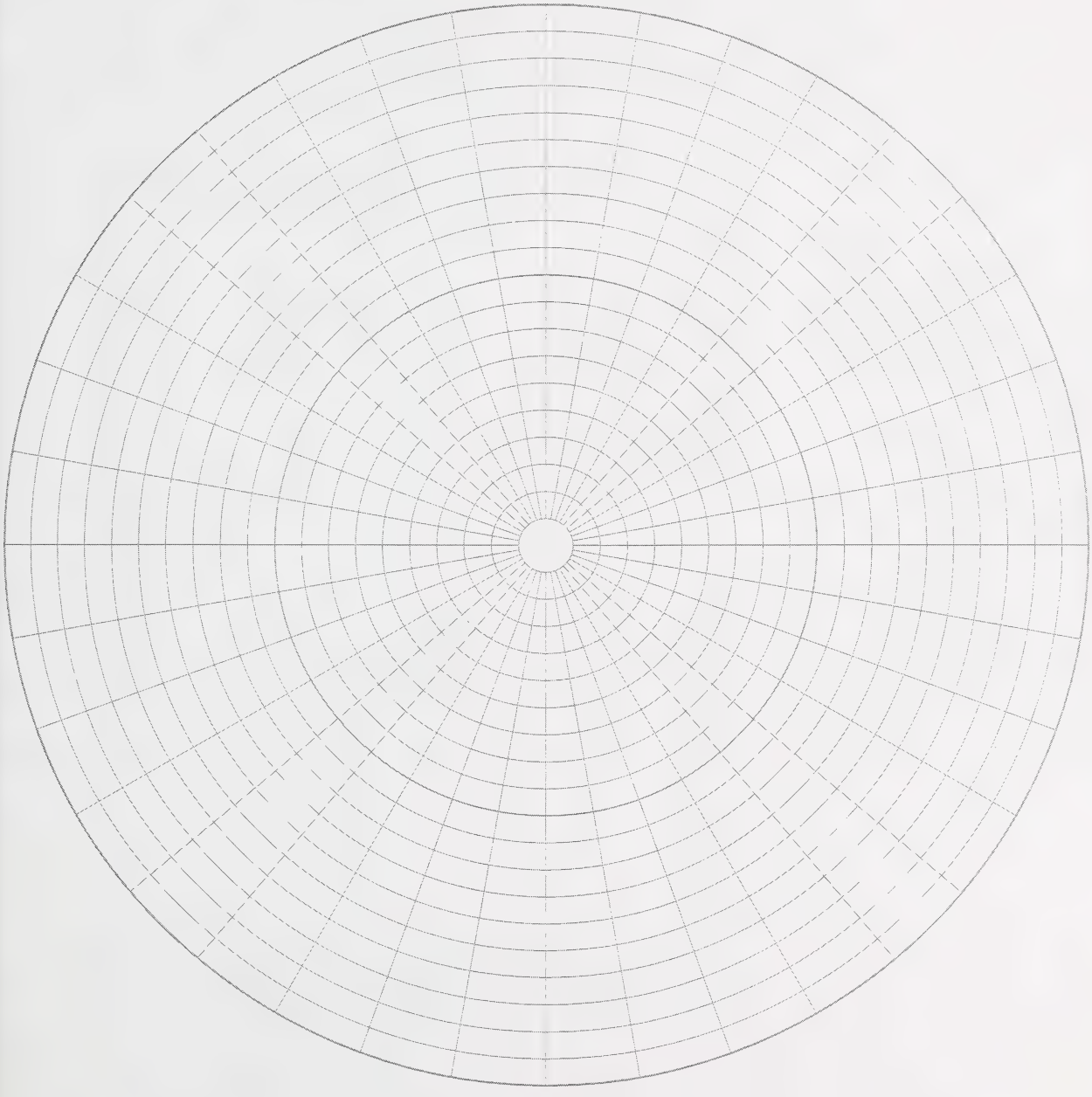
_____

_____

_____

_____

(7) **3. a. i.** Make a star hubcap design with nine points. Use the following circular grid. The spokes in the grid are 10° apart.



ii. Does your design have a line of symmetry? _____

iii. Does your design have rotational symmetry? _____

(5) **b.** Design the layout of a newsletter page.

There are five articles, each measuring 2 inches by 3 inches. There are two other articles that are 3 inches by 4 inches. The page is 9 inches by 12 inches. There needs to be a boundary of 1 inch around the outside of the page and there needs to be at least $\frac{1}{3}$ inch between articles.

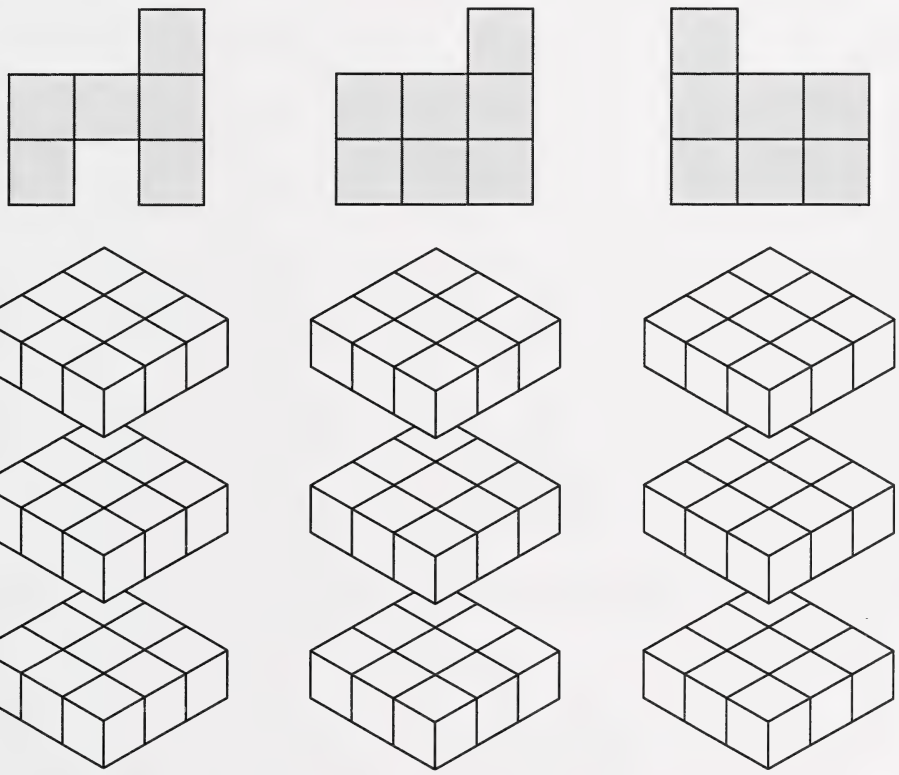
11

Final Module Assignment

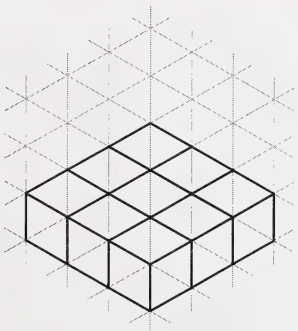
Clearly show how you arrived at your answers by showing your work.

Design a collection of 10 or more cubes that would give the following front, left, and right views. (Sugar cubes can be used with a dab of glue here and there to hold them together.)

Front View **Left View** **Right View**



Use a different colour for filling in each layer in the final 3D-diagram.



LEARNING TECHNOLOGIES BRANCH
DISTANCE LEARNING STUDENT COURSE SURVEY

After you have completed the assignments in this course, please fill out this survey. Your constructive comments will be greatly appreciated, as future course revisions can then incorporate any necessary improvements.

We encourage you to go to our website at ***www.learning.gov.ab.ca/ltb*** *and complete and submit this survey electronically. If this is not possible, see the last page of the survey for other ways to submit the survey.*

Age (optional): ❑ under 19 ❑ 19 to 40 ❑ over 40

School Where You Are Registered to Take This Course: _____

Course Name: _____ Date: _____

Course Copyright Year (See back cover.) _____

Design

1. The recommended process for students is to work through the Student Module Booklet as instructed and then complete the assignments when directed. Did you follow this process?

   ❑ Yes ❑ No If no, explain.

   _____

   _____

2. The Student Module Booklet contains a variety of self-assessed activities. Did you find it helpful to be able to check your work and have immediate feedback?

   ❑ Yes ❑ No If yes, explain.

   _____

   _____

   _____

3. Were the questions and directions in the Student Module Booklet easy to understand?

   ❑ Yes ❑ No If no, explain.

   _____

   _____

   _____

4. Did you understand what was expected in the Assignment Booklets?

   ❑ Yes ❑ No If no, explain.

   _____

   _____

5. The course materials were designed to be completed by students working independently. Were you always aware of what you had to do?

   ❑ Yes ❑ No If no, provide details.

   _____

   _____

6. This distance learning course may have included an assortment of drawings, photographs, and charts.

   a. Did you find the visuals in this course helpful?

      ❑ Yes ❑ No Comment on the lines below.

      _____

      _____

   b. Did you find the variety of visuals in this course motivating?

      ❑ Yes ❑ No Comment on the lines below.

      _____

      _____

7. Suggestions for Internet use may be included in the course. Were these suggestions helpful?

   ❑ Yes ❑ No Comment on the lines below.

   _____

   _____

8. Some activities may have called for the use of a course or textbook CD. Did you use such resources as instructed?

   ❑ Yes ❑ No Comment on the lines below.

   _____

   _____

9. How did you submit your assignments?

   ❑ mail ❑ fax ❑ e-mail ❑ drop off

10. The Student Module Booklet may have directed you to work with your teacher or to consult with your teacher if you were having problems. How well did you work as a team?

    _____

    _____

    _____

    _____

Course Content

1. Was enough detailed information provided to help you learn the expected skills and objectives?

   ❑ Yes ❑ No Comment on the lines below.

   _____

   _____

2. Did you find the workload reasonable?

❑ Yes ❑ No If no, explain.

_____

_____

3. Did you have any difficulty with the reading level?

❑ Yes ❑ No Please comment.

_____

_____

4. How would you assess your general reading level?

❑ poor reader ❑ average reader ❑ good reader

5. Was the material presented clearly and with sufficient depth?

❑ Yes ❑ No If no, explain.

_____

_____

6. Was a textbook required for the course?

❑ Yes ❑ No If yes, explain where you got it. Did you have any problem getting it?

_____

_____

General

1. What did you like least about the course?

_____

_____

2. What did you like most about the course?

_____

_____

Additional Comments

_____

_____

_____

_____

_____

Only students enrolled with the Alberta Distance Learning Centre need to complete the remaining questions.

1. Did you contact the Alberta Distance Learning Centre for help or information while doing your course?

   ❑ Yes ❑ No If yes, approximately how many times? _____

   Did you find the staff helpful?

   ❑ Yes ❑ No If no, explain.

   _____

   _____

2. Were you able to fax any of your assignment response pages?

   ❑ Yes ❑ No If yes, comment on the value of being able to do this.

   _____

   _____

3. If you mailed your assignment response pages, how long did it take for their return?

   _____

   _____

4. Was the feedback you received from your correspondence or distance learning teacher helpful?

❑ Yes ❑ No Please comment.

_____

_____

_____

Thanks for taking the time to complete this survey. Your feedback is important to us. If you are mailing this survey, please use the address on the right. Or, you may e-mail or fax the survey, using the address or number below.

E-mail: ltbgeneral@gov.ab.ca
Fax: (780) 674-6561

If you are enrolled at the Alberta Distance Learning Centre and will be mailing your Assignment Booklets to ADLC, you may return this survey with the final Assignment Booklet in the course.

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